

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A transgenic oilseed plant that produces mature seeds in which the total seed fatty acid profile comprises at least 1.0 % of at least one polyunsaturated fatty acid having at least twenty carbon atoms and five or more carbon-carbon double bonds.

Claims 2-10. (cancelled)

Claim 11. (currently amended) The oilseed plant of ~~Claims 1-10~~ Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 12. (currently amended) The oilseed plant of ~~Claims 1-10~~ Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 13-15. (cancelled)

Claim 16. (currently amended) Seeds obtained from the plant of ~~any of Claims 1-10~~ Claim 1.

Claim 17. (currently amended) Seeds obtained from the plant of ~~any of Claims 1-10~~ Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 18. (currently amended) Seeds obtained from the plant of ~~any of Claims 1-10~~ Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 19-20 (cancelled)

Claim 21. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims ~~40~~ 1, 11 or 12.

Claim 22. (withdrawn) Oil obtained from the seeds of the plants of any of Claims ~~4-40~~ 1, 11 or 12 wherein the polyunsaturated fatty acid an omega-3 fatty acid.

Claim 23. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims ~~4-40~~ 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claim 24. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims ~~4-10~~ 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 25. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims ~~4-10~~ 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA, and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 26. (currently amended) The plant of ~~any of Claims 1-10~~ Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower.

Claim 27. (currently amended) The plant of ~~any of Claims 1-10~~ Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 28. (currently amended) The plant of ~~any of Claims 1-10~~ Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 29-139. (cancelled)

Claim 140. (new) A by-product obtained from the processing of the seeds obtained from a plant of any of claims 1, 11, or 12.